Notice of Allowability	Application No.	Applicant(s)	Applicant(s)	
	10/613,245	TEZCAN ET AL.		
	Examiner	Art Unit		
	Dang T Nguyen	2824		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s	n this application. If not include unication will be mailed in due	ed course. THIS	
1. This communication is responsive to 12 October 2004.				
2. The allowed claim(s) is/are <u>1-30</u> .				
3. \boxtimes The drawings filed on <u>03 July 2003</u> are accepted by the Ex	aminer.			
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	e been received.			
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give the control of the con	MENT of this application. Mitted. Note the attached EXA es reason(s) why the oath of st be submitted. Son's Patent Drawing Review S Amendment / Comment of Market St.	AMINER'S AMENDMENT or Not declaration is deficient. W (PTO-948) attached In the Office action of the drawings in the front (not the	OTICE OF	
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s) 1. V Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗍 Interview S	ummary (PTO-413), /Mail Date	0-102)	
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	08), 7. ☐ Examiner's	Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allo	owance	
of Biological Material	9. ⊠ Other <u>Sear</u>	h Phung		
	AM PRIMA	H PHUNG RY EXAMINER		

Response to Amendment

1. This office action is in response to applicant's amendment received on 08/09/04. Claim 18 has been amended. Claims 1 - 30 are pending in this case. Claims 1, 16, 18, 20, and 29 are independent claims.

Allowable Subject Matter

2. Claims 1 – 30 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claim 1, in addition to other elements in the respective claims, the prior art of record fails to teach, suggest "a virtual partitioning circuit that selectively enables a partition in the CAM core for search of a portion of a search word at the search word input responsive to the search word, and that provides a mapping of the search word to a comparand input to the CAM core, the mapping defining a virtual subpartition".

With respect to claims 16 and 29, the prior art Periera discloses a Content

Addressable Memory having a plurality of CAM blocks with block selection circuit. However
there is no suggestion or teaching in the prior art to provide "a random access memory (RAM)
that accesses a memory location therein responsive to a first portion of the search word and
that applies a control input to the CAM core to constrain search for a second portion of the
search word to a partition of the CAM core responsive to the accessed memory location".

With respect to claim 18, in addition to other elements in the respective claims, the prior art of record fails to teach, suggest "means for selectively enabling a partition

Application/Control Number: 10/613,245

Art Unit: 2824

in the CAM core for searching of a portion of a search word at the search word input responsive to the search word; means for mapping the search word to a virtual subpartition identifier and for providing the virtual subpartition identifier as a comparand input to the CAM core".

With respect to claim 20, in addition to other elements in the respective claims, the prior art of record fails to teach, suggest "selectively enabling a partition in a CAM core for search of a portion of the search word at the search word input responsive to the search word; mapping the search word to a virtual subpartition identifier; and searching the partition for the portion of the search word in conjunction with searching the CAM core for the virtual subpartition identifier to thereby produce a search result for the search word".

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lien et al. (Pub. No.: US 2003/0165073 A1) discloses a <u>content addressable</u> <u>memory (CAM)</u> devices, initially applying data (e.g., search words) to the array and then performing a compare operation to identify one or more locations within the array that contain data equivalent to the applied data and thereby represent a "match" condition.

Srinivasan et al. (Patent No.: 5,706,224) discloses means for comparing a search word with all data words stored in the array, means for generating a match signal when the bits of the search word match the bits of the data words.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 10/613,245

Art Unit: 2824

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

5. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703) 305-3900. The faxed phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

Dang Nguyen 11/10/2004

DRIMARY EXAMINER

Page 4